



## P-660HW Series

802.11g Wireless ADSL 2+ 4-port Gateway

### *Cost-effective High-Speed Wireless ADSL2+ Gateway for SOHO Networks*

ADSL 2+ High Speed Internet Access

- Media Bandwidth Management Support
- Multimedia Auto Provisioner (MAP) for Easy Installation
- SPI Firewall with Denial of Service Attack Prevention
- High Speed Wireless 802.11g, 5 times Faster than 802.11b

#### Benefits

##### Higher Speed Internet Access

ZyXEL P-660HW series is an all-in-one affordable router, compatible with high-speed ADSL, ADSL2 and ADSL2+ interfaces over existing copper lines. With speed up to 12Mbps (ADSL2) or 24Mbps (ADSL2+), the P-660HW series offers higher data transfer rates and better bandwidth than traditional ADSL gateways. It also supports RE ADSL (Reach-Extended ADSL) for higher speed and longer distance. With excellent performance and upward compatibility, the P-660HW series is great as the bridge between today's communications needs and tomorrow's converged services.

##### Robust Firewall Security

The ICSA-certified ZyNOS operating system ensures state-of-art firewall performance and robust security from the P-660HW series. Based on Stateful Packet Inspection, DoS (Denial of Service) and DDoS features, it provides the first line defense against hackers, network intruders, and other harmful threats.

##### Media Bandwidth Management

The P-660HW series enables network administrators to allocate network resources and to guarantee Quality of Service (QoS). The MBM (Media Bandwidth Management) function prioritizes media services, and increases productivity and efficiency in daily operations by tailoring a system to specific demands such as VoIP, video streaming, video-conferencing or MP3 applications.

##### Higher Speed and Wider Range When Enabling ZyXEL Exclusive Wireless g+ SuperSpeed Technology (Optional)

The P-660HW series are compliant with the 802.11g wireless standard which allows data transmission speeds reach up to 54Mbps. Certain models support ZyXEL Wireless g+ SuperSpeed Technology, that makes the ZyXEL P-660HW series boost the wireless connection speed between router and wireless clients to an astounding \*125Mbps, as opposed to the standard 54Mbps speed of 802.11g and 11Mbps of 802.11b.

#### Specification

##### Wireless Standard

- IEEE 802.11g

### ADSL Compliance

- ANSI T1.413 Issue 2
- ITU G.992.1 G.dmt
- ITU G.992.2 G.lite
- ITU G.994.1 G.hs
- ITU ADSL2 G.992.3, G.992.4
- ITU ADSL2+ G.992.5
- Reach-Extended ADSL (RE ADSL)

### ATM Support

- 8 PVCs Support
- ATM Forum UNI 3.1/ 4.0
- RFC 1483/2684 Multiple Protocol over AAL5
- RFC 2364 PPP over AAL5
- RFC 2516 PPP over Ethernet
- VC and LLC Multiplexing
- ATM QoS UBR,CBR,VBR
- I.610 OAM F4/F5 Loop-back, AIS, and RDI OAM Cells

### Firewall Security

- Stateful Packet Inspection
- Prevent DoS, DDoS Attack
- Policy-based Access Control
- Content Filtering
- IP & Generic Packet Filtering
- Real-time Attack Alert and Logs

### Routing Support

- IEEE 802.1d Transparent Bridging
- IP Routing: TCP, UDP, ICMP, ARP
- RIPv1 and RIPv2
- IP Multicast IGMP v1/v2
- IP Policy Route

### IP Management

- SUA/Multi-NAT Internet Sharing
- Multimedia Support
- VPN (IPSec, PPTP) Pass-through
- DHCP Server/Relay/Client
- DNS Proxy
- Dynamic DNS
- UPnP Support

### Network Management

- Web-based Configuration
- Telnet Remote Management
- FTP/TFTP for Firmware Upgrade and Romfile Backup and Restore
- SNMP Support
- Built-in Diagnostic Tool

### WLAN Features

- 802.11g Compliance Speed Up to 54Mbps
- Comply with 802.11b
- 64/128/256 Bits WEP Encryption

- Dynamic WEP Key
- 802.1x Port-based Authentication
- WPA(Wi-Fi Protected Access),WPA2
- WPA-PSK,TKIP
- External RADIUS Server Support
- MAC Address Filtering

#### Advanced Features

- Zero Configuration
- Traffic Redirect
- Multimedia Service Routing Technology (MSRT)
- Media Bandwidth Management (MBM)
- Wi-Fi Multimedia (WMM) (P-660HW-6x/ Dx)
- Multimedia Auto Provisioner (MAP)
- One Touch Intelligent Security Technology(OTIST)

#### Hardware Specification

- ADSL: One RJ-11 or RJ-45 Port
- LAN: 4-port Switch, 10/100M Auto MDI/MDIX
- Reset Button
- Status LEDs Indicator
- Power 12V DC for P-660HW-6x, 12V AC for P-660HW-Dx and P-660HW-Tx
- Fixed Antenna (2dBi)

#### Physical Specification

- Dimensions: 180(W)x 128(D)x 36(H)mm
- Weight: 325 g

#### Operating Environment

- Temperature: 0°C ~ 50°C
- Humidity: 20% ~ 95%

*\* Firmware upgradeable for future enhancement*

### **Application Diagram**

#### **Prioritize your Internet Applications through Media Bandwidth Management (MBM)**

